

OBTAINABLE FROM

CARBIC LIMITED
54 DUNDONALD ROAD,
LONDON, S.W.19.

SLIDE RULES

SECTION ONE

YNCH LANE WEYMOUTH DOASET



WHY AND HOW TO CHOOSE A B.R.L

For some years we have concentrated on the manufacture of B.R.L. Slide Rules made from plastic materials. Using specially chosen material of highest dimensional stability, capable of taking the finest engravings of unsurpassed clarity and durability, we are absolutely convinced that no conventional construction of slide rules in wood faced with celluloid can compare with the B.R.L. production. The "satin" finish presents a compromise between a matt surface (thus easily stained) and a high gloss reflecting surface which can result in eyestrain for the continuous user. Completely unaffected by dry or humid conditions, B.R.L. slide rules only need the care one would expect to give to any high grade precision instrument, and today B.R.L. is the hall mark of the finest British production.

On many occasions, we find there is some confusion or doubt in the mind of the potential user as to which type of slide rule is required, hence the following notes, outlining the merits of the various types which are at present available in the comprehensive range of B.R.L. slide rules. All are of the highest degree of accuracy, fine engraving and durability, but differ in the number and choice of scales carried on the rule.

Generally speaking, it is a mistake to select a rule carrying more scales than are likely to be needed, since the less there is on the face, the more easily can the scales be read.

A unique feature of our more expensive models is the special tension device enabling the user to adjust the slide movement to his own requirement.

The following models are fitted with this as a standard feature:

A.G.5. G.29. A.L.6. A.U.7. T.11. T.12. E.13. E.13c. E.25. D.26. All the 10" slide rules can be ficted with our " Fullview " magnifier which has been widely appreciated.

It is convenient to classify the range of B.R.L. rules into five categories, viz.: General Purpose Technicians

Log-Log Commercial When selecting a B.R.L. slide rule it is hoped the following notes will assist the purchaser to choose a rule most suited to his requirements:

General Purpose Range. This consists of 8-10" and 3-6" models. They are based on the Reitz system, which is shown in full in models A.G.5, P.14 and 303 while the less expensive numbers are variants carrying fewer scales in different combinations. Used mainly for mulciplication and division, with scales for squaring, cubing, logarithms, and trigonometrical functions.

Log-Log and Technicians Range. This consists of eleven 10" models, two 6" models, and two " Janus Series " Duplex models. The system has some of the features of the General Purpose Range, but often the cubing (k) and Log (L) scales are omitted in favour of Log-Log scales for raising to powers or extracting roots. In their simpler forms, model A.L.4 is the less expensive variant, and models P.17 and A.L.6 include scales for trigonometrical functions.

More advanced patterns (Multi-Log) designed mainly for use by Technicians, embody an extra Log-Log scale to cover a wider range, and others such as the Vector Scale, and Folded Scales. Reciprocal Log-Log Scales are included in the two Duplex models. There are also several rules having scales for Electrical calculations, and the following table may serve as a gulde:

Lag-Log Standard Models. A.L. 4, A.L.6, P.17.

Multi-Log Models. T.11, T.12, E.13, D.26, T.50, T.51, P.28.

Vector Scale (P....\sqrt{1-x^2}\) Models. T.11, T.12, E.13, D.26, P.28. Folded Scale (\(\pi x\)\) Models. T.12, E.13, T.50, T.51, G.27.

Log-Log Duplex Models . . . Janus Series. T.50, T.51. Electrician's Models. E.25, E.13, P.16.

Finally, we would draw attention to model T.50 in the Janus Series. It is certainly the aristocrat of present-day Slide Rules. Its Junior edition No. T.51 is of modified construction, and is a most useful rule.

Commercial Model. This slide rule is especially designed to solve problems concerning £ s. d. and can be of great assistance in Counting Houses, Cost Offices, Sales Departments and similar places. Special scales are included to cover "profit on cost" and "profit on return" as well as the usual calculating scales. Direct readings in £ s. d. are obtainable,

Students Range. This consists of 5 special models known as "Academy Series." They cover the main systems in use today and offer superlative quality rules of British make at very economical prices.

THE B.R.L RANGE OF SLIDE RULES MADE OF IVORY COPOLYMER

Magnifying Accessories (see pages 10-12)	₩	(a) Magnex L.22 Size 8 (b) Fullylew L.18 with L.23 fixed current cursor to be fixed with Lug L.17	(b) Fullview L.18 with L.24 Reced curson or reuem corror to be fitted with Lug L.17	(b) Fullyiaw L.72 Size 8 (b) Fullyiaw L.18 with L.23 fitted current of feture cursor to be fitted with Lug L.17	(z) Magnex L22 Size 10	(a) Magner 1.22 Size 6 (b) Fullview 1.18 with 1.23 fixed quirtor cursor to be fixed with 1 1.1
Instructions	Tital taka taka taka taka taka taka taka t	Book B1 English (Blue) B3 French B4 Durch	Leaffer B19	Book B1 English (Blue) 83 Dutch	Book 81 English (Blue) B3 French 84 Durch	Dirce
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	the second	×			Curx	29 29 20 20 20 20 20 20 20 20 20 20 20 20 20
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	the state of the s	Ax3	Detec	Ditto	Ax2 C1(R)1	Dicto NOTE G.22 does
Cursor		7.13 3.11ne	1.24 Single line	3-1-10	2.13 Fine	L.23 Single line
Packing		Strong covered box	Strang covered box	Strong	Leather	Strong
Sire	1 2 1 3 3	10**	19	5	t _Q	*0\$
Ref. No.		A. G.1	Academy 300	A.G.2	P.19D	G.22
Type		REITZ AND GENERAL PURPOSE MODELS				

ries	L.22 Size B L.18 with L.23 ficced cursor feturn cursor to be fitted with Lug L.17	L.13 fitted	0	.23 ficted	Lug L.17		23 fitted	24 ficted or to be
Magnifying Accessories	(a) Magnex 1.22 Size B (b) Fullview 1.18 with L.13 fice cursor or return cursor to fitted with Lug L.	(a) Magnex L.22 Size 8 (b) Fullview L.18 with L.23 ficted Curson or return cursor to be ficted with Lug L.17	(a) Magnes L.72 Size 10	(a) Magnex L.22 Size 8 (b) Fullview L.18 with L.23 ficted ourser to be	fitted with Log L.17	(a) Magnest L.22 Size 10	(a) Magner L.22 Size 8 (b) Fullview L.18 with L.23 fitted our results conserved to	Asset with Lug L.17 (a) Magnex L.25 Size 9 (b) Fullview L.18 with L.24 ficted cursor cursor to be offered with Lux 1.17
Instructions	Book 84 English (Blue)	Book 81 English (Blue) B3 French B4 Dutch	Book 81 English (Blue) as B3 Franch as B4 Dutch	Ditte		Book B1 English (Bitre) B3 French	Ditto	Leafler 219
	CHR)	DFax	Ç	STsinetane	a le	Dx	STtin9 can9	Dirto
Scales	L(M)A2 L(M)Log x L(M)Log x Lable of constants on the reverte	Cx Dx	Bx2 Cx C1(R)1	Ttan9 ST	G.29 does not carry STsin@ran(9 Scale	Bx ² Cx	Ttanθ ST	Dicto
	Ax3 Kx3 Table of	Aa≥ CFa×	As/2	Ssin69 Dicce NOTE P.15D does	G.29 does	Ax1 Kx3	Ssin@ Ditto	Direc
Cursor	1.23 3-line	3-180	1.25 3-line	1.23 3-line		1.25 3-line	1,23 3,1ine	J.24 3-line
Packing	Strong	Strong	Leather	Scrong		Leacher	See price list for alterna- ityes	Strong
Size	10,	ئ	*9	10"		**	10°	9
Ref. No.	6.23	6.27	P.150	*G.29		P.145	*A,G.5	Academy 303
ad.	REITZ AND GENERAL PURPOSE MODELS	, the						

* Fitted with parent adjustable slide tersuming. Note —Parking and carrage parts.

Magnifying Accessories (see pages 10-12)	10 mm 1 m	(a) Magnex L.22 Size 8 (b) Fullview L.18 with L.23 fitted cursor cursor to be fitted with Lug L.17	(a) Magnex L.22 Size 10			(a) Magnex (1,22 Size B (b) Fullview L.18 with L.23 fitted cursor intrara to be of Peturn cursor to be fitted with Lug L.17	(a) Magnex L.22 Size 9 (b) Fullytew L.16 with L.24 fitted	or return quesor to be fitted with Lug L.17
Inscruedans		Book B1 English (Blue) B3 French B4 Durch	Book Bi English (Blue) Bi French Bi Dutch			Ditto	Leafler B19	
Scales		Ax ² Bx ² Cx Dx LL3x ^{0.1} x LL3x ⁴ C1(R)f	Ax ² B x ² Cx Dx LL2(UL)e ^{0+X} LL3(LL)e ^X	C1(R)1 Kx3 Llog x	S slocks Tcandel STsindetande	Ditto Ditto Ditto	Ditto Dicto Dicto	NOTE PLID dees not carry Kx? of Llog x Ackedemy 302 does not carry ST SEBle A.L.6 does not carry Kx? or Llog x
Cursor		1.23 3-jac	L.25 3-fine			J. 133	E. 24 3-11ne	
Packing		Strong	Case			See price list for alterna- cives	Strong	
Size	2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	5	÷			\$	\$	
Raf. No.		A.L.*	P.17D			. F. L. 6	Academy 302	
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Figure with parent dejuscable while reasoning black Firs og ind carriage ever-

Magnifying Accessories (see pages 10-12)	(a) Magnex L.22 Size 3	a) Magnex L.22 Size 9 (b) Fullwine L.18 with L.24 fitted ourselve oursers to be fitted with Lug L.17	(a) Magnex L.22 Size 9 (b) Fullwaw L.18 with L.24 fitted or return curror to be of return curror to be fitted with Lug L.17	(a) Magnex L.22 Size 9 (b) Full-lew L.18 with L.24 fitted cursor cursor to be or fecun cursor to be fitted with Lug L.17	(a) Magnex L.22 Size 9 (b) Fullview L/18 with L,24 fixed tursor to be fixed with Lug L.17	(a) Magnew L.22 Size 2 (b) Fullystew L.18 with L.14 fitted cursor or return cursor to be fixed with Lug L.17
Instructions	Book 81 English (Blue) B3 French B4 . Dutch	Ditto	Leallet 819	Book B1 English (Blue) B3 French B4 Dutch	Book 81 English (Blue) 84 Dutch	Book Bf English (Blue) 83 French 84 Dutch
Scales	As ² Bx ² C. x Dx L(M)Log x K. x ³ CHRI1 LL1e ^{01x} LL2e ^{01x} LL3e ^x PV ^{1.x2} S sinft Ttanfol	Ditto Ditto	Datto Ditto Ditto Ditto Ditto The above three models can be supplied with the HP Gauge point and 4th cursor line engaved in the 736 position, to meet the needs of continental users where 736 Watta-1 HP.	Ast Bst C. x Dx C1(R) . 1 P \(\sqrt{4-st}\) LL1(L1) . e^{0.x} LL2(UL)e^{0.x} \$stack Ttanks STsin@ tanks	Ax ²	Ax² Bx² Cx Dx C1(REC)* Kx³ L(MAN)Log x LL2(UL)e ⁰⁺¹ x Ssinθ Ttanθ STsinθeanθ
Çursor	Aire Line	L.24 4-line	1.24 4-line	L.24 3-line	Mind The	L.14 Size 2 3-line
Packing	Leather	See price list (or alterna- tives	Strong	See price list for alterna- tives	See Doice list for Alterna- tives	See price int for alcerna- tives
Sine	6	ş	ş	è	10	701
Ref. No.	50 6.	26	Academy 304	-T310	1,120	*****

LOG-LOG Contd.

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See note below re metric models

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P.16D	S _a	Leather Case	1.25 3-line	KWJAx² HPJBx² Cx Dx LL2(LL)e³ x LL3(LL)e² Ssine Ttanéy STsinétanéy Voltage drop. Dynamo and motor efficiency voltage drop. Dynamo and motor efficiency scales. Resistance for varying temperature scale. Cosine stale for A.C. Power calculations.	Book B3 English (Red) B3 French B4 Durch	(a) Magnew L.22 Size 10
305 305	Ď.	Strong covered box	1.24 4-line	KW/Ax² HPIBx³ Cx Dx Kx³ C11 Llog.x LL2ebix x LL3ex Ssind Ttanév Voltage drop, Generator efficiency, Motor efficiency, 3-Phase Generator efficiency.	Leafer B2D (Red)	(a) Magnex L.25 Size 9 (b) Fulfview L.18 with L,24 fitted cursor to resor to be fitted with Lug L.17
*E.25	2	Sea price list for alcorna- tives	1,14 Size 1 4-hna	Ax² Bx² Cx Dx Llog x LL2c² tx LL3ex C11 Kx³ 5sin(t) T tak Voltage drop. Dynamo and motor efficiency. Dynamo and motor efficiency.	Book 82 Enzlish (Red) B3 French T. 84 Durch	(a) Magnes L.22 Size 1 (b) Fullview L.18 with L.14 ficted virsor recursor to be ficted with Lug L.17
는 H 3 3	5	See price list for sives	5.224 3.11.24 3.11.34	LL(L1)e.dix LL2(LL)e.ix LL3(LL)ex Ax² Ax² Cx D. x C1(CR)1 CF and DF folded act and CIF(CR) y Ey 1x² Ttanf9 STanf9anf9 The above four models can be supplied with The HP gauge point and 4th fursor line engisted in the 736 position, so meet the weeks of continental users where 736 Wates -1 HP.	Book B2 English (Rad) B3 French B4 Dutch	(a) Migney L.25 Signs 9 (b) Fullylew L.18 with L.24 fitted oursor to be fitted with Lug L.11

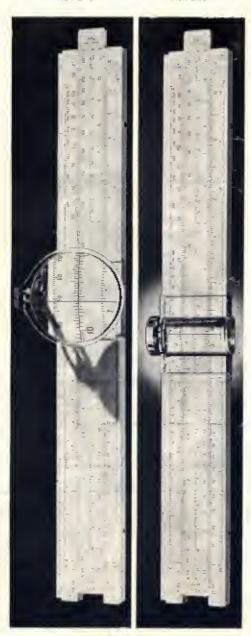
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MERCANTILE	25	10.	Strong cavered bax	1,24 Single Jine	Monerary Scales: L		Lesfler 87	(a) Magnex L.22 Size 9 (b) Fullview L.18 with L.24 fitted cursor or return cursor to be fitted with Lug L.17
			1 2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3				1 CT 11E	
JANUS SERIES (Log-Log Duples)	1.50	-01	Size 5	1.20 Single line faces faces	OBVERSE Cx CF7x DF7x LLf.,e ^{0.0} x LLog x	C4 1 C(F 3) L(3 4×	8-0-0-k 815	(a) Magnes L.32 Size 4 (b) Fullysew L.18 with L.20 fitted cursor to be fixed with Lug L.17
					REVERSE Ax2 Rx3 LLOe=-11 Ssine() Ttan(c)	Dx D11 x LL.OOe=10 STsin@tan0		

	L.22 Size 7 L.18 with L.24 fitted cursor Fetura cursor to be fitted with Lug L.17	L.22 Size 4 L.22 Size 4 cursor law h. 20 fleed cursor cursor to be fixed with Lug L.17	L.22 Size 6 Fixed Lunio Fortum cursor to be fixed with Lug L, 17
	(a) Magnex L.72 Size 7 (b) Fullziew L.18 with L.24 fitted cursor or return corsor to be fitted with Lug L.17	(a) Magnex L.22 Size (b) Fullview L.18 with of return cu fixed war	(b) Magnex L.22 Size 6 (b) Fullylew L.18 curso. or count cursor to be freed with Lug L.43
	Diera	Baok B6	Leafter 89
	Dieto	Dx Llog x TAcan69 C11 C11 mperzure es, seutete	D,x
	Ditto	OBVERSE Ax² Bx² Cx Llog x Llog	OBVERSE CHR)1 CHR)1 LL2eaux CHR)1 LL2eaux NEVERSE 4 VI Speed increment—km,h I'V. Speed increment—m.p.h I'V. Then Speed—km,h or m.p.h. S1Distance—km or miles S2Distance—yards
	Digg	OBVERSE Ax2 Kx3 Ssine Ssine Ssine Conversion Gauge po REVERSE Cx Spacial Scales for dee Conversion, datance in miles and kilometres,	OBVERSE Ax3 CHR1 x X REVERSE A VI Speed T.U.Time- YMean StDistant StDistant
	C.21 Single line Reading both faces	Single Single Rine Rock Porth Scen	L_2d Site 3 Single Single South Faces
	Strong rovered box	See grice for for tives	See price list for tives
1	<u> </u>	b b	£0.4
	2.7	N. 52	60 60 60 60
	JAN DS SERIES (Lor-Los Duplex) Contd.)	(Navigators)	Engineers)



ACCESSORIES FOR SLIDE RULES

FULLY(EW) Ref. L.18 MAGNEX Ref. 1.72



MAGNIFYING ATTACHMENTS

Aef. No.	Description
L,18	The B.R.L. FULLYIEW MAGNIFIER
	A very handy accachment giving a large and clear field of vision, it donists of a rimmed lens with a hinge, fitted to a Perspex pedestal. This first instantly into a small lug on the cursor and, when not in use, can be kept in a pocker in the lid of a specially deep slide rule case, If a slide rule, which is normally packed in an instrument case, and a magnifier are ordered together, the correct size case will be supplied, but new cases can be obtained separately if needed, see below. The Fullview is not available for 6" slide rules. Complete, including all parts
L.17	Lens and pedestal only. Lug only, including cost of ficting to cursor. Stocks of cursors are kept
W.1	ficted with this tug. In this case, the combined price of cursor and lug applies. Deep lidded case to house both slide rule and magnifier. For standard 10" rules. For wide-face 10" rules.

ESPECIALLY USEFUL WITH DUPLEX RULES

INSTANTLY REVERSIBLE

Ref. No.	Description
L.22	The NEW MAGNEX
	A half round lens to clip on cursor (Provisional patent). Then is a new design fitted with a spring clip at one end to ensure a good fit. When not wanted it can instantly be removed, Sizes 3, 8, 9 and 10. Sizes 1, 2, 4, 5, 6 and 7.
W.9	Leather pouches for either size Purchase tax on pouch.

When ordering Magnex, please state the slide rule model with which it is to be used



		CURSORS	
DES	IGNATION	DESCR	PTION
(a) Single Line cursor		Central hair line, filled black.	
(b) 3-Line cur (c) 4-Line cur		Two side hair lines filled red, placed of hair line, to convert the diameter of Lines as described in (b) above plumultiplying and dividing by 746.	a circle into area and vice vers
Cursor Ref.	No. and Size	Firting Models	Fitting L.22 Magnex
			Lifting TTT Middlex
L.14	Šīze 1	£.25	Size 1
	Size 1 Size 2	E.25 A.U.7	
L.14 L.14 L.15			Size 1
L.14 L.14 L.15 L.20	Size 2	A.U.7	Size 1 Size 2
L.14 L.14 L.15	Size 2 Size 3	A.U.7 P.26	Size 1 Size 2 Size 3
L.14 L.14 L.15 L.20 L.20 L.20	Size 2 Size 3 Size 1	A.U.7 P.28 T.50	Size 1 Size 2 Size 3 Size 4
L.14 L.14 L.15 L.20 L.20	Size 2 Size 3 Size 1 Size 2	A.U.7 P.28 T.50 N.52	Size 1 Size 2 Size 3 Size 4 Size 5
L.14 L.15 L.20 L.20 L.20 L.21 L.23	Size 2 Size 3 Size 1 Size 2	A.U.7 P.28 T.50 N.52 TR.53	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6
L.14 L.14 L.15 L.20 L.20 L.20 L.21	Size 2 Size 3 Size 1 Size 2	A.U.7 P.26 T.50 N.52 TR.53 T.51	Size 1 Size 2 Size 3 Size 4 Size 5 Size 6 Size 7

INSTRUCTION BOOKS

B.1 Standard Instruction book,	English Edition (Blue Cover),
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- B.2 ... Combined Electrical Instruction book. English Edition (Red Cover).
- B.3 ... Standard and Electrical Instruction book. French Edition (Blue Cover).
- 8.4 ... Standard and Electrical Instruction book. Dutch Edition (Blue Cover).
- B.5 ... Dual Face Slide Rule Instruction book by F. Roberts, Esq., O.B.E., D.S.C., M.I.Mar.E.
- 8.6 ... Special Navigation Slide Rule Instruction book by J. C. Podmore, Esq.
- B.7-B.18 Instruction leaflets for special models as applicable, (inclusive)
- B.19 ... Standard Instruction leaflet for Academy Series (Blue (ext).
- B.20 ... Combined Electrical Instruction leaflet for Academy Series (Red text),



CONTAINERS



Ref. No.	Descriptio	N .
** W.1 W.2	Instrument type Hinged Case Instrument type hinged case	To house Rule and Full View Magnifier For standard 10" rules For wide-face 10" rules
W.3	Leather Case in Brown Hide for Pocket Slide I	Rules Purchase Tax
W.4	Strong covered cardboard box	For standard 10" rules For wide-face 10" rules
W.5 W.24	Instaction Leacher Case with pressbutton flap Scrong box covered in book cloth	For standard 10" rules For standard 10" rules

CONDITIONS OF SALE

"All goods comprised in this catalogue are sold subject to observance of the fixed retail prices specified, and the Conditions of Sale, notified separately".